



## Annual Arthropod-Borne Hemorrhagic Fever Report REPORT DESCRIPTION

### PURPOSE/DESCRIPTION:

The Annual Arthropod-Borne Hemorrhagic Fever Report provides information for cases of arthropod-borne hemorrhagic fever diagnosed during the last 10 years. This report presents the total cases of arthropod-borne hemorrhagic fever, by calendar year, and also provides detail by Service, for active component, Reserve/Guard and other beneficiaries.

**FREQUENCY:** The Annual Arthropod-Borne Hemorrhagic Fever Report is released in April of each year.

**DATA SOURCES:** DMSS (Defense Medical Surveillance System) reportable events, inpatient and outpatient encounter data.

### CASE DEFINITIONS & CAVEATS:

1. Case Definition: Arthropod-borne hemorrhagic fever cases are those individuals with an ICD-9 code indicative of arthropod-borne hemorrhagic fever in any diagnostic position. Case definition includes 1 inpatient encounter, 1 reportable event, or 2 outpatient visits irrespective of data source.
2. Inclusion Criteria: Based on the Tri-Service Reportable Event Guidelines and Case Definitions (June 2009), an ICD-9 code indicative of arthropod-borne hemorrhagic fever includes: 065.x and encompasses Crimean hemorrhagic fever, Omsk hemorrhagic fever, Kyasanur Forest disease, and other tick-, arthropod- and mosquito-borne hemorrhagic fevers.
3. Exclusion Criteria: Excludes Chikungunya (ICD-9: 066.3), Yellow (ICD-9: 060) and Dengue (ICD-9: 061) Fever.
4. Incidence Rule: Although arthropod-borne hemorrhagic fever can be acquired more than once, an individual may be counted as a case only once during a 365-day period.
5. Definitions:
  - “MHS Beneficiaries” includes dependents and retirees of the Military Health System (MHS).
  - “Unknown” cohort lacks information on FMP, service, or component; thus these individuals could not be assigned elsewhere. This cohort may include civilians, contractors, or foreign nationals, and does not factor into MHS total counts.
6. Clarifications:
  - Counts represent unique individuals from any data source.
  - Outpatient visits must be within 60 days of each other.
  - Note: TMDS does not consistently reflect theater encounters prior to May 2008.
  - Because arthropod-borne hemorrhagic serotypes are not delineated in the ICD-9 codes, this granularity of detail cannot be conveyed using the existing administrative data sources.



# Arthropod-Borne Hemorrhagic Fever in Active Component, Reserve/Guard, and Other Beneficiaries from 2002-2011



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	TOTAL
	Total Count	Total Count	Total Count	Total Count	Total Count	Total Count	Total Count	Total Count	Total Count	Total Count	Total Count
<b>Army</b>	1	2	-	-	1	2	-	2	1	1	10
Active Component	1	1	-	-	1	1	-	2	-	1	7
Reserve / Guard	-	1	-	-	-	1	-	-	1	-	3
<b>Navy</b>	-	-	-	-	-	-	-	1	1	-	2
Active Component	-	-	-	-	-	-	-	1	-	-	1
Reserve / Guard	-	-	-	-	-	-	-	-	1	-	1
<b>Marine Corps</b>	-	-	2	-	-	-	-	-	1	-	3
Active Component	-	-	1	-	-	-	-	-	1	-	2
Reserve / Guard	-	-	1	-	-	-	-	-	-	-	1
<b>Air Force</b>	-	-	1	-	-	-	-	1	-	-	2
Active Component	-	-	1	-	-	-	-	-	-	-	1
Reserve / Guard	-	-	-	-	-	-	-	1	-	-	1
<b>Coast Guard</b>	-	-	-	-	1	1	-	-	-	-	2
Active Component	-	-	-	-	1	1	-	-	-	-	2
Reserve / Guard	-	-	-	-	-	-	-	-	-	-	-
<b>MHS Overall</b>	38	56	28	5	17	26	12	11	14	7	214
Active Component	1	1	2	-	2	2	-	3	1	1	13
Reserve / Guard	-	1	1	-	-	1	-	1	2	-	6
MHS Beneficiaries*	37	54	25	5	15	23	12	7	11	6	195
<b>Unknown**</b>	-	1	7	31	60	44	55	23	24	16	261

Arthropod-borne hemorrhagic fever includes: Crimean hemorrhagic fever, Omsk hemorrhagic fever, Kyasanur Forest disease, and other tick-, arthropod- and mosquito-borne hemorrhagic fevers.

Case of arthropod-borne hemorrhagic fever includes ICD-9 of 065.x in any diagnostic position. Case definition includes 1 inpatient encounter, 1 reportable event, or 2 outpatient encounters.

Counts represent unique individuals from any data source. Incidence rule is 365 days. Outpatient encounters must be within 60 days of each other.

\*Includes Dependents, & Retirees

\*\*No information on FMP, Service or Component, and may include civilians, contractors and foreign nationals. Does not factor into MHS total #'s

Source: Defense Medical Surveillance System (DMSS), 30APR2012

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